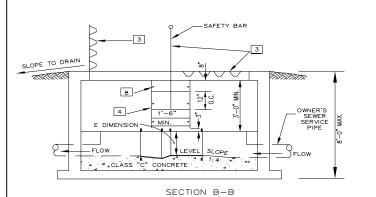
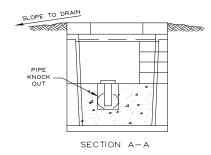


NOTES

- 1 REINFORCED STEEL AND CLEARANCE AS APPROVED BY THE ENGINEER.
- 2 BLACK MASONRY MAY BE USED IN LIEU OF CIP WALLS. 8" BLOCK MASONRY, GROUT EACH CELL TO FULL HEIGHT (GROUT PER MAG SECTION 776).
- 3 2 TORSION SPRING ASSISTED GALVANIZED DIAMOND PLATE ACCESS DOORS (DESIGN LOADING AASHO—H20) LOCKING WITH TYPE 304SS HARDWARE AND SAFETY BAR (BLICO MODEL LU-3, OR APPROVED EQUAL)
- LADDER SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DETAIL AND SHALL MEET THE REQUIREMENTS OF OSHA FOR TYPE 1A (3001bs) FIXED LADDERS.
 SNELLED FOR ALL MENT AND THE ACCORDANCE OF THE
- 5 2" x 4" KEY, CENTER ON WALL. (INSTALL ROPE CAULK CONTINUOUSLY).
- 6 1-5/8" x 2-1/2" x 3" KEY.
- 7 4" PVC DUMBELL TYPE CONTINUOUS WATERSTOP 3/8" MIN. THICKNESS. (WASH THOROUGHLY PRIOR TO INSTALLATION.
- 8 ANCHOR STRAPS (3 EACH SIDE) WITH 5/8" x 3-1/2" 316SS ANCHOR BOLTS WITH LOCK WASHER AND NUT.

COVER WITH LID





PRE-CAST VAULT

UTILITY VAULT CO. VAULT NO. 575-BL, NO. 577-BL OR APPROVED EQUAL

EQUIPMENT DESCRIPTION

A FISHER AND PORTER TYPE 10F1940, HINDE ENGINEERING COMPANY, PS-1001, OR APPROVED EQUAL MOLDED FIBERGLASS REINFORCED POLYESTER PARSHALL FLUME SHALL BE INSTALLED. THE FLUME SHALL BE MOLDED IN ONE PIECE WITH AMPLE WALL HICKNESS AND REINFORCING RIBS TO PREVENT DISTORTION DURING SHIPMENT, INSTALLATION, AND OPERATION. THE FLUME SHALL BE SELF-SUPPORTING AND REQUIRE NO EXTERNAL SUPPORTING STRUCTURE. INTERIOR DIMENSIONS SHALL CONFORM TO THOSE IN THE LATEST REVISION OF WATER MEASUREMENT MANUAL PUBLISHED BY THE U.S DEPARTMENT OF THE INTERIOR, WATER AND POWER RESOURCES SERVICES. THE THROAT WIDTH AND FLUME HEIGHT (*E DIMENSION) SHALL BE PER PLAN.

7/97





GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO MAG SPECIFICATIONS AND DETAIL AND CITY OF SCOTTSDALF SUPPLEMENT TO MAG SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON PLANS.

 2. ALL CONCRETE FLOORS, WALLS AND TOP SLAB OF THE STRUCTURE SHALL CONFORM TO MAG SECTION 725,
- CLASS A, MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 3,000PSI.

 3. ALL CONCRETE FOR GROUT FILLET INSIDE THE STRUCTURE SHALL CONFORM TO MAG SECTION 725, CLASS C, MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 2,000 PSI.
- 4. ALL STEEL REINFORCING SHALL BE DEFORMED BARS, GRADE 60, BILLET STEEL CONFORMING TO ASTM SPECIFICATION NO. A-615, LATEST EDITION. 5 THE MONITORING/SAMPLING VALUET SHALL BE INSTALLED ON THE OWNER'S PROPERTY AS CLOSE TO THE
- CUSTOMER TAP TO THE CITY SEWER AS FEASIBLE, AND APPROVED BY THE CITY OF SCOTTSDALE.
- 6. FLUME SIZE SHOULD BE BASED UPON THE MINIMUM AND MAXIMUM FLOW RATES AND VELOCITIES TO INSURE FREE-FLOW CONDITIONS.

 --MAXIMUM FLOW = 70%-100% OF MAXIMUM CAPACITY OF SELECTED FLUME SIZE.

 -0.5 INCHES OF FLOW SHOULD EXIST AT THE MINIMUM ACTUAL FLOW.
- 7. FLUME FLOOR ELEVATION SHOULD BE HIGH ENOUGH, RELATIVE TO DOWNSTREAM CONDITIONS, TO PREVENT SUBMERGED FLOW (50% SUBMERGENCE IS ACCEPTABLE AT MAXIMUM FLOW), INSTALL THE FLUME LEVEL (LONGITUDINALLY AND TRANSVERSELY) IN THE CONVERGING SECTION.
- 8. UPSTREAM FLOW SHOULD BE WAVE FREE, NON-TURBULENT, AND SYMMETRICAL HAVING A UNIFORM VELOCITY (If on MINIMUM TO 3795 MAXIMUM) AT LEAST 10 TIMES THE DIAMETER OF THE UPSTREAM SEVER PIPE IN LENGTH IN THE APPROACH CHANNEL. BENDS UPSTREAM IN THE FLUME WILL NOT BE ALLOWED FOR A DISTANCE OF 25 PIPE DIAMETERS UNLESS CONDITIONS IN THE APPROACH SECTION OF THE FLUME WILL NOT BE ADVERSELY AFFECTED.
- 9. THE FLUME SHALL BE INSTALLED OFF-CENTER AND AWWAY FROM THE LADDER TO ALLOW THE MAXIMUM WORKING SPACE FOR CITY PERSONNEL.
- 10. IT SHALL BE THE OWNER'S RESPONSIBILITY TO PROPERLY MAINTAIN THE FLUME IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS TO ENSURE THE ACCURACY OF THE MEASUREMENT.

DETAIL NO. G-3450

CITY OF GOODYEAR STANDARD DETAIL

APPROVED BY: Goodyear Standards and Policies Committee

MONITOR/SAMPLING VAULT

DETAIL NO.

G-3450